

Drincable 800 Cable



Eland Product Group: **A6E**

APPLICATION

WRAS-approved cable suitable for permanent submersion in potable water up to a depth of 800m. Can be used where improved chemical and abrasion resistance is required, including submersible pumps in mining application, submersible pumps for drinking water, depuration / chlorination systems, swimming pool lighting, aquariums and processing and preserving systems of drink and foodstuff. Water resistance tested to EN 50525-2-21 (AD8 condition).

CONSTRUCTION

Conductor

Class 5 tinned copper conductor according to BS EN 60228

Insulation

EPR compound Type E17 according to BS EN 50363-1

Sheath

Elastomeric cross-linked compound Type 5GM3 - EM2

CABLE STANDARDS

IEC 60811-2-1, BS EN 50525-2-21, BS EN 50363-1, BS EN 60228, ACS, KTW, DVGW W270, WRAS, DM174/04



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

0.6/1kV

Test Voltage

4kV

Temperature Rating

-25°C to +90°C

Maximum Water Temperature

+80°C

Minimum Bending Radius

Fixed: 3 x overall diameter

Flexed: 5 x overall diameter

Core Identification

3 core: ● Blue ● Brown ● Green/Yellow

4 core: ● Brown ● Black ● Grey ● Green/Yellow

5 core: ● Blue ● Brown ● Black ● Grey ● Green/Yellow

Sheath Colour

● Light Blue

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6E10015	1	1.5	5.55	35
A6E10025	1	2.5	6.2	55
A6E10040	1	4	7	70
A6E10060	1	6	7.8	100
A6E1010	1	10	9.3	155
A6E1016	1	16	10.2	215
A6E1025	1	25	11.7	305
A6E1035	1	35	13.2	380
A6E1050	1	50	15.3	570
A6E1070	1	70	17.6	795
A6E1095	1	95	19.7	1030
A6E1120	1	120	22.2	1305
A6E1150	1	150	24.1	1590
A6E1185	1	185	26.7	1980
A6E1240	1	240	29.8	2560
A6E1300	1	300	32.9	3180
A6E1400	1	400	36.5	4050
A6E1500	1	500	41.7	4990
A6E3G0015	3G	1.5	9.3	110
A6E3G0025	3G	2.5	10.6	180
A6E3G0040	3G	4	11.8	225
A6E3G0060	3G	6	13.1	295
A6E3G010	3G	10	16.9	480
A6E3G016	3G	16	19.2	680
A6E3G025	3G	25	23.7	995
A6E3G035	3G	35	26.6	1325
A6E3G050	3G	50	31.3	1890
A6E3G070	3G	70	35.9	2620
A6E3G095	3G	95	40.2	3225
A6E3G120	3G	120	45.7	4130
A6E3G150	3G	150	50.6	5115
A6E3G185	3G	185	55.1	6200
A6E3G240	3G	240	62	7850
A6E3G300	3G	300	69	10050
A6E4G0015	4G	1.5	10.2	135
A6E4G0025	4G	2.5	11.8	200
A6E4G0040	4G	4	13.2	270
A6E4G0060	4G	6	14.6	380
A6E4G010	4G	10	18.8	630
A6E4G016	4G	16	21.1	870
A6E4G025	4G	25	26.3	1310
A6E4G035	4G	35	29.4	1725
A6E4G050	4G	50	34.7	2490
A6E4G070	4G	70	39.8	3420
A6E4G095	4G	95	45.4	4480
A6E4G120	4G	120	50.6	5605
A6E4G150	4G	150	56.1	6985
A6E4G185	4G	185	61.6	8465
A6E4G240	4G	240	68.9	10900

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	ELECTRICAL RESISTANCE AT 20°C ohms/km	PHASE REACTANCE AT 50Hz ohms/km	
		Flexible Conductors Tinned Copper	Single Core Cables
1.5	13.7	0.168	0.118
2.5	8.21	0.155	0.109
4	5.09	0.143	0.101
6	3.39	0.135	0.0955
10	1.95	0.119	0.0861
16	1.24	0.112	0.0817
25	0.795	0.106	0.0813
35	0.565	0.101	0.0783
50	0.393	0.101	0.0779
70	0.277	0.0965	0.0751
95	0.210	0.0975	0.0762
120	0.164	0.0939	0.0740
150	0.132	0.0928	0.0745
185	0.108	0.0908	0.0742
240	0.0817	0.0902	0.0752
300	0.0654	0.0895	0.0750
400	0.0495	0.0876	0.0742
500	0.0391	0.0867	0.0744

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY	
	Laying in Air A	Laying in Water A
1.5	23	29
2.5	32	38
4	42	52
6	54	67
10	75	94
16	100	125
25	127	166
35	158	205
50	192	256
70	246	316
95	298	377
120	346	438
150	399	505
185	456	577
240	538	681
300	621	785

Conductor temperature: +90°C
 Ambient air/water temperature: +30°C

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.